National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MICROTECH TESTING & RESEARCH LABORATORY, AGASOD ROAD, BINA-ETAWA, SAGAR, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- BUILDING MATERIAL	Cement OPC/PPC	Silica as SiO2	IS 4032
2	CHEMICAL- BUILDING MATERIAL	Cement PPC/OPC	Alumina as Al2O3	IS 4032
3	CHEMICAL- BUILDING MATERIAL	Cement PPC/OPC	Calcium Oxide as CaO	IS 4032
4	CHEMICAL- BUILDING MATERIAL	Cement PPC/OPC	Ferric Oxide as Fe2O3	IS 4032
5	CHEMICAL- BUILDING MATERIAL	Cement PPC/OPC	Insoluble Residue	IS 4032
6	CHEMICAL- BUILDING MATERIAL	Cement PPC/OPC	Loss on Ignition	IS 4032
7	CHEMICAL- BUILDING MATERIAL	Cement PPC/OPC	Magenisia as MgO	IS 4032
8	CHEMICAL- BUILDING MATERIAL	Cement PPC/OPC	Sulphate as SO3	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement PPC/OPC	Total Chloride as Cl	IS 6925
10	CHEMICAL- BUILDING MATERIAL	Coarse Aggregate	Alkali Aggregate Reactivity - Dissolved Silica	IS 2386 (Part 7)
11	CHEMICAL- BUILDING MATERIAL	Coarse Aggregate	Alkali Aggregate Reactivity - Reduction of Alkalinity	IS 2386 (Part 7)
12	CHEMICAL- BUILDING MATERIAL	Concrerte Admixture	Ash Content	IS 9103
13	CHEMICAL- BUILDING MATERIAL	Concrerte Admixture	Chloride Ion Content	IS 6925
14	CHEMICAL- BUILDING MATERIAL	Concrerte Admixture	Density	IS 9103
15	CHEMICAL- BUILDING MATERIAL	Concrerte Admixture	Dry Material Content	IS 9103
16	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	pH	IS 9103
17	CHEMICAL- BUILDING MATERIAL	Fine Aggregate	Alkali Aggregate Reactivity	IS 2386 (Part 7)
18	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel (Medium Carbon)	Carbon as C	IS 228 (Part 1)

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19	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel (Medium Carbon)	Chromium as Cr	IS 228 (Part 6)
20	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel (Medium Carbon)	Manganese as Mn	IS 228 (Part 2)
21	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel (Medium Carbon)	Nickel as Ni	IS 228 (Part 5)
22	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel (Medium Carbon)	Phosphorous as P	IS 228 (Part 3)
23	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel (Medium Carbon)	Silicon as Si	IS 228 (Part 8)
24	CHEMICAL- METALS & ALLOYS	Alloy Steel & Carbon Steel (Medium Carbon)	Sulphur as S	IS 228 (Part 9)
25	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Compressive Strength	IS 6441 (Part 5)
26	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Density	IS 6441 (Part 1)
27	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Dimension (Height)	IS 2185 (Part 3)
28	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Dimension (Length)	IS 2185 (Part 3)
29	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Dimension (Width)	IS 2185 (Part 3)
30	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Binder Content	ASTM D 2172
31	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Ductility	IS 1208
32	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Elastic Recovery	IS 15462
33	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Flash Point	IS 1448 (Part 69)
34	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Flow Value	ASTM D6927
35	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Marshall Stability	ASTM D6927
36	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Penetration	IS 1203
37	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Softening Point	IS 1205

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38	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Specific Gravity	IS 1202
39	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Thermal Stability	IS 14982
40	MECHANICAL- BUILDINGS MATERIALS	Brick	Compressive Strength	IS 3495 (Part 1)
41	MECHANICAL- BUILDINGS MATERIALS	Brick	Efflorescence	IS 3495 (Part 3)
42	MECHANICAL- BUILDINGS MATERIALS	Burnt clay building bricks	Dimension (Height)	IS 1077
43	MECHANICAL- BUILDINGS MATERIALS	Burnt clay building bricks	Dimension (Length)	IS 1077
44	MECHANICAL- BUILDINGS MATERIALS	Burnt clay building bricks	Dimension (Width)	IS 1077
45	MECHANICAL- BUILDINGS MATERIALS	Burnt clay building bricks	Water Absorption	IS 3495 (Part 2)
46	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/OPC)	Compressive Strength	IS 4031 (Part 6)
47	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/OPC)	Consistancey	IS 4031 (Part 4)
48	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/OPC)	Density/Specific Gravity	IS 4031 (Part 11)
49	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/OPC)	Final Setting Time	IS 4031 (Part 5)
50	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/OPC)	Fineness - Blain's Permability	IS 4031 (Part 2)
51	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/OPC)	Initial Setting Time	IS 4031 (Part 5)
52	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/OPC)	Soundness Auto Clave Expansion	IS 4031 (Part 3)
53	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/OPC)	Soundness Le-Chatelier Expansion	IS 4031 (Part 3)
54	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Core	Compressive Strength	IS 516 (part4)
55	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Pavement	Sieve Analysis for Pavement Quality Concrete	MORTH (Rev. 5
56	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386 (Part 4)

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57	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3)
58	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
59	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
60	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
61	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
62	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion Value	IS 2386 (Part 4)
63	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Material Finer than 75 micron	IS 2386 (Part 1)
64	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis, 4.75 mm	IS 2386 (Part 1)
65	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by, MgSO4	IS 2386 (Part 5)
66	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by, Na2SO4	IS 2386 (Part 5)
67	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
68	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
69	MECHANICAL- BUILDINGS MATERIALS	Concrete Cubes	Compressive Strength	IS 516(part 1/sec1)
70	MECHANICAL- BUILDINGS MATERIALS	Concrete Mix Proportion	Slump Test	IS 1199 (part 2)
71	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)
72	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulking of Sand	IS 2386 (Part 3)
73	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 micron	IS 2386 (Part 1)
74	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis, 10mm,4.75 mm,2.36mm,1.18,0.600mm,0.300mm,0.150mm,0.075mm	IS 2386 (Part 1)

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75	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness MgSO4	IS 2386 (Part 5)
76	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness Na2SO4	IS 2386 (Part 5)
77	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
78	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
79	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Particle Retained on 45 micron	IS 1727
80	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Specific Gravity/Density	IS 1727
81	MECHANICAL- BUILDINGS MATERIALS	Fly Ash (Pozzolana)	Fineness Blain's Permeability	IS 1727
82	MECHANICAL- BUILDINGS MATERIALS	Granular Sub Base, Wet Mix Macadam	California Bearing Ratio (CBR)	IS 2720 (Part 16)
83	MECHANICAL- BUILDINGS MATERIALS	Granular Sub Base, Wet Mix Macadam	Liquid Limit	IS 2720 (Part 5)
84	MECHANICAL- BUILDINGS MATERIALS	Granular Sub Base, Wet Mix Macadam	Maximum dry density	IS 2720 (Part 8)
85	MECHANICAL- BUILDINGS MATERIALS	Granular Sub Base, Wet Mix Macadam	Optimum moisture content	IS 2720 (Part 8)
86	MECHANICAL- BUILDINGS MATERIALS	Granular Sub Base, Wet Mix Macadam	Plastic Limit	IS 2720 (Part 5)
87	MECHANICAL- BUILDINGS MATERIALS	Granular Sub Base, Wet Mix Macadam	Sieve Analysis, 4.75 mm	IS 2386 (Part 1)
88	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Compressive Strength	IS 15658
89	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimension (Height)	IS 15658
90	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimension (Length)	IS 15658
91	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimension (Width)	IS 15658
92	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Visual Inspection	IS 15658
93	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Water Absorption	IS 15658

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94	MECHANICAL- BUILDINGS MATERIALS	Steel Reinforcement	Bend	IS 1599
95	MECHANICAL- BUILDINGS MATERIALS	Steel Reinforcement	Elongation	IS 1608 (Part 1)
96	MECHANICAL- BUILDINGS MATERIALS	Steel Reinforcement	Rebend	IS 1786
97	MECHANICAL- BUILDINGS MATERIALS	Steel Reinforcement	Ultimate Tensile Strength	IS 1608 (Part 1)
98	MECHANICAL- BUILDINGS MATERIALS	Steel Reinforcement	Weight/meter	IS 1786
99	MECHANICAL- BUILDINGS MATERIALS	Steel Reinforcement	Yield Stress	IS 1608 (Part 1)
100	MECHANICAL- BUILDINGS MATERIALS	Structural Steel(un machined)	Bend	IS 1599
101	MECHANICAL- BUILDINGS MATERIALS	Structural Steel(un machined)	Elongation	IS 1608 (Part 1)
102	MECHANICAL- BUILDINGS MATERIALS	Structural Steel(un machined)	Ultimate Tensile Strength	IS 1608 (Part 1)
103	MECHANICAL- BUILDINGS MATERIALS	Structural Steel(un machined)	Yield Stress	IS 1608 (Part 1)
104	MECHANICAL- BUILDINGS MATERIALS	Welded carbon steel	Bend (Face/Root)	IS 3600 (Part 5)/ASME Sec. 9
105	MECHANICAL- BUILDINGS MATERIALS	Welded carbon steel	Elongation	IS 1608 (Part 1)
106	MECHANICAL- BUILDINGS MATERIALS	Welded carbon steel	Tensile Strength	IS 1608 (Part 1)
107	MECHANICAL- BUILDINGS MATERIALS	Welded carbon steel	Yield Stress	IS 1608 (Part 1)
108	MECHANICAL- SOIL AND ROCK	Natural Rock	Density	IS 13030
109	MECHANICAL- SOIL AND ROCK	Natural Rock	Water Absorption	IS 1124
110	MECHANICAL- SOIL AND ROCK	Soil	Calfornia Bearing Ratio (CBR)	IS 2720 (Part 16)
111	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Cohesion Value	IS 2720 (Part 13)
112	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Angle)	IS 2720 (Part 13)

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113	MECHANICAL- SOIL AND ROCK	Soil	FDD by core Cutter Method	IS 2720 (Part 29)
114	MECHANICAL- SOIL AND ROCK	Soil	FDD by Sand Replacement Method	IS 2720 (Part 28)
115	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
116	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis, 0.075 mm	IS 2720 (Part 4)
117	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction	IS 2720 (Part 8)
118	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
119	MECHANICAL- SOIL AND ROCK	Soil	MDD	IS 2720 (Part 7)
120	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part 2)
121	MECHANICAL- SOIL AND ROCK	Soil	OMC	IS 2720 (Part 7)
122	MECHANICAL- SOIL AND ROCK	Soil	OMC	IS 2720 (Part 8)
123	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 3)
124	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6)
125	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3)
126	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Carbonation Depth	IS 516 (Part 5) Sec. 3

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Site Facility				
1	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Rebound Hammer Test	IS 516 (Part 5) Sec. 4
2	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Ultra Sonic Pulse Velocity Test	Concrete Structure	IS 516 (Part 5) Sec. 1